

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: November 8, 2001, 10:37:20 ; Search time 244.67 Seconds

(without alignments)
15831.631 Million cell updates/sec

Title: US-09-227-881-3

Perfect score: 6169
Sequence: 1 atcttgcgtcagtttaccctc.....cttgccctccatcgtcag 6169

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 730101 seqs, 313950809 residues

Total number of hits satisfying chosen parameters: 1460202

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	6169	100.0	6169	19 AAV51368	Human TIGR upstream
2	6169	100.0	6169	21 AAV57486	A TIGR (trabecular
3	5275.4	85.5	5300	21 AAV57484	A TIGR (trabecular
4	5274.4	85.5	5299	19 AAV51361	Human TIGR promote
5	5273.8	85.5	5300	19 AAV51362	Human TIGR promote
6	5273.8	85.5	5300	19 AAV51363	Human TIGR promote
7	5273.8	85.5	5300	19 AAV51365	Human TIGR promote
8	5273.8	85.5	5300	19 AAV51366	Human TIGR promote
9	5273.8	85.5	5300	19 AAV51367	Human TIGR promote
10	5269.4	85.4	5271	21 AAV57511	A TIGR (trabecular
11	5261.4	85.3	5304	19 AAV51364	Human TIGR promote

12	5253.4	85.2	5304	21 AAV57485	A TIGR (trabecular
13	2677.4	43.4	2800	21 AAV37968	Human GLC1A gene e
14	975.2	15.8	3493	19 AAV37618	Human glaucoma ass
15	640.4	10.4	1548	19 AAV51391	Human TIGR CDNA.
16	640.4	10.4	1548	21 AAV57509	CDNA encoding trab
17	640.4	10.4	1890	20 AAV57606	Human TIGR/MTOC ge
18	640.4	10.4	1999	20 AAV81910	Human trabecular m
19	640.4	10.4	1999	20 AAV08904	TIGR protein codin
20	640.4	10.4	1999	22 AAC87528	Human TIGR CDNA, S
21	640.4	10.4	2000	19 AAV33484	Trabecular meshwor
22	604.4	9.8	1512	20 AAV08905	TIGR protein codin
23	604.4	9.8	1512	22 AAC87529	Human TIGR CDNA op
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26	585.8	9.5	2800	21 AAV37971	Mouse GLC1A gene e
27	556.6	9.0	1969	17 AAT30152	Trabecular meshwor
28	556.6	9.0	1969	19 AAV28331	Nucleotide sequenc
29	519.6	8.4	1491	17 AAT30153	Trabecular meshwor
30	382.8	6.2	1473	21 AAV37975	Mouse GLC1A polype
31	283	4.6	283	21 AAV57514	Trabecular meshwor
32	227	3.7	227	21 AAV57515	Oligonucleotide D1
33	182.8	3.0	936	22 AAF58254	Oligonucleotide D1
34	182.8	3.0	936	22 AAF58254	Oligonucleotide D1
35	182.8	3.0	936	22 AAF58257	Oligonucleotide D2
36	182.8	3.0	936	22 AAF58259	Oligonucleotide D2
37	182.8	3.0	936	22 AAF58262	Oligonucleotide D2
38	182.8	3.0	936	22 AAF58255	Oligonucleotide D1
39	182	3.0	936	22 AAF58252	Oligonucleotide D1
40	182	3.0	936	22 AAF58254	Oligonucleotide D1
41	182	3.0	936	22 AAF58257	Oligonucleotide D1
42	182	3.0	936	22 AAF58259	Oligonucleotide D2
43	182	3.0	936	22 AAF58262	Oligonucleotide D2
44	182	3.0	938	22 AAF58255	Oligonucleotide D1
45	176.4	2.9	283	15 AAG63862	AP2 sequence obtd.

ALIGNMENTS

RESULT 1	
AAV51368	standard; DNA; 6169 BP.
ID AAV51368	
XX	
AC AAV51368;	
XX	
DT 27-OCT-1998	(first entry)
XX	
XX	Human TIGR upstream region and exon 1 DNA.
DE	
XX	
XX	TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.
KM	
XX	
OS	Homo sapiens.
XX	
XX	
FH Key	Location/Qualifiers
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FT	/*tag= b
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FT	/*tag= c
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FT	/note= "partial intron sequence"
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XX	
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XX	
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XX	98WO-US00468.


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Db 1801 ttccatttgggagcatctgtgtgtgtatagaggagagagcataccacagagaccct 1860
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```
RESULT 2
ID AAA57486
XX AAA57486 standard; DNA: 6169 BP.
XX
AC AAA57486:
XX
DT 20-OCT-2000 (first entry)
XX
DE A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter.
XX
KM TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
KW glaucoma; steroid sensitivity; progressive ocular hypertension;
XX vision loss; ss.
XX
OS Homo sapiens.
XX
PH Key
FT Location/Qualifiers
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FT 4998
FT /*tag- c
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PR 11-JAN-1999: 99US-02272881.
XX 07-MAY-1999: 99US-0306828.
XX
PA (REGC ) UNIV CALIFORNIA.
XX
PI Nguyen TD, Polansky JR, Chen P, Chen H;
XX WPI: 2000-491060/43.
XX
DR
XX
PT Diagnosis, prognosis and treatment of glaucoma, based on detecting
PT specific polymorphisms in the promoter of the trabecular meshwork
PT inducible glucocorticoid receptor gene -
XX
PS Claim 37: Page 105-107; 122pp: English.
XX
XX The present sequence represents a TIGR (trabecular meshwork inducible
XX glucocorticoid receptor) promoter. The specification describes a method
XX for the diagnosis, prognosis and treatment of glaucoma, based on
XX detecting specific polymorphisms in the promoter of the TIGR gene.
XX The method is used for diagnosis and prognosis of glaucoma (of all
XX types), steroid sensitivity and progressive ocular hypertension that
XX leads to loss of vision. Glaucoma can be treated by administering an
XX agent that binds to cis-acting elements within the TIGR promoter. The
XX TIGR promoter (or other regulatory regions) can be used to express
XX homologous or heterologous genes, particularly for tissue-specific
XX expression of therapeutic transgenes for treating glaucoma, also to
XX generate transgenic animals and in screening for compounds (specific
XX modulators) with diagnostic or therapeutic potential. Fragments of the
XX TIGR sequence can be used as amplification primers or probes, e.g. for
XX isolating related sequences in non-human animals.
```

XX SQ Sequence 6169 BP; 1702 A; 1389 C; 1491 G; 1587 T; 0 other:

Query Match 100.0%; Score 6169; DB 21; Length 6169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 6169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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[illegible]

[illegible]

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FT		/tag- c
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PF	11-JAN-2000; 2000MO-US00559.	
XX		
PR	11-JAN-1999; 99US-0227881.	
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PA	07-MAY-1999; 99US-0306828.	
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PA	(REGC) UNITV CALIFORNIA.	
PI		
PI	Nguyen TD, Polansky JR, Chen P, Chen H;	
XX		
DR	WPI: 2000-491060/43.	
XX		
PT	Diagnosis, prognosis and treatment of glaucoma, based on detecting specific polymorphisms in the promoter of the trabecular meshwork inducible glucocorticoid receptor gene -	
PS	Inducible glucocorticoid receptor gene -	
XX		
XX	Claim 34; Fig 1A-E; 12pp; English.	
CC	The present sequence represents a TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter, isolated from an individual without glaucoma. The specification describes a method for the diagnosis, prognosis and treatment of glaucoma, based on detecting specific polymorphisms in the promoter of the TIGR gene. The method is used for diagnosis and prognosis of glaucoma (of all types), steroid sensitivity and progressive ocular hypertension that leads to loss of vision. Glaucoma can be treated by administering an agent that binds to cis-acting elements within the TIGR promoter. The TIGR promoter (or other regulatory regions) can be used to express homologous or heterologous genes, particularly for tissue-specific expression of therapeutic transgenes for treating glaucoma, also to generate transgenic animals and in screening for compounds (specific modulators) with diagnostic or therapeutic potential. Fragments of the TIGR sequence can be used as amplification primers or probes, e.g. for isolating related sequences in non-human animals.	
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Query Match	85.5%; Score 5275.4; DB 21; Length 5300;	
Best Local Similarity	99.9%; Pred. No. 0;	
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RESULT 4

AAV51361 standard; DNA: 5299 BP.

AAV51361.

XX 27-OCt-1998 (first entry)

DE Human TIGR promoter region DNA.

XX TIGR: trabecular meshwork induced glucocorticoid response protein; human;

KM diagnosis: glaucoma; polymorphism; steroid sensitivity; ss.

XX Homo sapiens.

PN WO9832850-A1.

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XX 30-JUL-1998.
PD 09-JAN-1998; 98WO-US00468.
PE 26-SEP-1997; 97US-0938669.
PR 28-JAN-1997; 97US-0791154.
XX (REGC ) UNIV CALIFORNIA.
XX Chen H, Chen P, Nguyen TD, Polansky JR;
PI WPI: 1998-427946/36.
DR
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
XX Claim 34; Fig 1; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter region which is used in a method for diagnosing
CC glaucoma in a patient. The method involves the detection of polymorphisms
CC whose presence is predictive of a mutation affecting TIGR response in the
CC patient and can be diagnostic of glaucoma or steroid sensitivity. Base
CC substitutions and base additions upstream of and within TIGR exons can
CC also be used to diagnose glaucoma.
XX
SQ Sequence 5299 BP; 1482 A; 1151 C; 1235 G; 1431 T; 0 other;

Query Match      85.5% Score 5274.4; DB 19; Length 5299;
Best Local Similarity 99.9% Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

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DB 1861 tgaagcccccgcagaggttctctccagctgtggggagccctgcagaagacccgggtcc 1920
QY 1921 tgggtgtcccgagcaacccctgcagcccggtccagctgtgtttgttatcaactcttag 1980
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DB 1921 tgggtgtcccgagcaacccctgcagcccggtccagctgtgtttgttatcaactcttag 1980
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DB 2701 ataaagtcaagctgtctaaaatcccaaggtgtgtcatgtgtttccctcaacgaagcccttat 2760
QY 2761 ttaattggaatataggaagcagatcattctccttaggcggttaattcacggaagaagtgc 2820
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Db 4920 gttgaattgaanaataaactagaataataatccttgtttgaatcagacacacagtagtccgtg 4979

[illegible]

RESULT	5	
AAVS1362		
ID	AAVS1362	standard; DNA: 5300 BP.
XX		
AC	AAVS1362:	
XX		
DT	27-OCT-1998	(first entry)
XX		
DE	human TIGR promoter mutant TIGRm1	DNA.
XX		
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human	
XX	diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.	
OS	Homo sapiens.	
OS	Synthetic.	
XX		
FH	Key	Location/Qualifiers
FH	mutation	4337
FT		/*tag-
FT		a
XX		/note- "Wild type C is replaced by G"
PN	MO9832850-A1.	
PD		
PD	30-JUL-1998.	
XX		
PE	09-JAN-1998:	98WC-US00468.
XX		
PR	26-SEP-1997:	97US-0938669.
PR	28-JAN-1997:	97US-0791154.
XX		
PA	(RECC)	UNIV CALIFORNIA.
XX		
PI	Chen H, Chen P, Nguyen TD, Polansky JR;	
DR	WPI: 1998-427946/36.	
XX		
PT	use of TIGR nucleic acid sequences - used for, e.g. developing	
PT	products for diagnosis, prognosis and treatment of glaucoma	
XX		
PS	Disclosure: Fig 2; 105pp: English.	
XX		
CC	This sequence is a trabecular meshwork induced glucocorticoid response protein (TIGR) promoter mutant, TIGRm1, which is used in a method for diagnosing glaucoma in a patient. The method involves the detection of polymorphisms whose presence is predictive of a mutation affecting TIGR response in the patient and can be diagnostic of glaucoma or steroid sensitivity. Base substitutions and base additions upstream of and within	
CC	sensitivity. Base substitutions and base additions upstream of and within	

CC TIGR exons can also be used to diagnose glaucoma.
XX
SQ Sequence 5300 BP; 1482 A; 1151 C; 1236 G; 1431 T; 0 other;

Query Match	85.5%;	Score 5273.8;	DB 19;	Length 5300;
Best Local Similarity	99.9%;	Pred. No. 0;		
Matches 5297;	Conservative	0;	Mismatches 2;	Indels 2;
			Gaps	2;

OY	1	attcttcttcaggttacccttcagggttatattagaatggaatggaataccaatgtgnaag	60
Db	1	attcttcttcaggttatttaaccttcagggtcatcttaagaatggaatggaataccaatgtgnaag	60
OY	61	tcctataacagtataagctcccatctcgatgtagtctcttcgscgagatgaataagaaatca	120
Db	61	tcctataacagtataagctcccatctcgatgtagtctcttcgscgagatgaataagaaatca	120
OY	121	ggaagaagagatcaccacggttagccaaagtgtccagcgtgtgtctgtcttaatttagtga	180
Db	121	ggaagaagagatcaccacggttagccaaagtgtccagcgtgtgtctgtcttaatttagtga	180
OY	181	cagatgtgttccttcgcgcagaaagcattcttttaaggaaaatacaactccaatagttaaatc	240
Db	181	cagatgtgttccttcgcgcagaaagcattcttttaaggaaaatacaactccaatagttaaatc	240
OY	241	catcaacaagagatgcataaagaacagaatagatatggcacttcgcccagaaggaaaatgtccag	300
Db	241	catcaacaagagatgcataaagaacagaatagatatggcacttcgcccagaaggaaaatgtccag	300
OY	301	gagagcaaaataatgataaaaaataaacttttcctctgtttttaatttcagagaaaatgtg	360
Db	301	gagagcaaaataatgataaaaaataaacttttcctctgtttttaatttcagagaaaatgtg	360
OY	361	atgtaggaccaaaatcatatgaataagaaataagcttcgaataaagaatgttcccaatttg	420
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OY	481	aaacgctcaaaaagcactgactgtatcagaatcccaaaagtgtatattattttaaaaccgcat	540
Db	481	aaacgctcaaaaagcactgactgtatcagaatcccaaaagtgtatattattttaaaaccgcat	540
OY	541	ggctacactctcggggagggcaaggttcagagaaggtcattgttcgcaaaagcataacaataac	600
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OY	601	agcaaaaatcaaaatctccgcgaatgcagagagaanaatggggactcgggaagcttcataac	660
Db	601	agcaaaaatcaaaatctccgcgaatgcagagagaanaatggggactcgggaagcttcataac	660
OY	661	agtgattaaagcaggttgcacatgtgttcgcgaacaacccctccgcgtctataccaaggaaacaaa	720
Db	661	agtgattaaagcaggttgcacatgtgtgttcgcgaacaacccctccgcgtctataccaaggaaacaaa	720
OY	721	atgtactcgggtcctaaagcctgtgaacttcgaagggaataatgaaaaactcgaagcaacaaca	780
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OY	781	gacatgtgttaaaaggcaaccagaacacatctgtagaccttcagaagacaggtgcctccatgca	840
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OY	901	ttgaagaatcatgaattttaaccaatttaagataaacaacaatacgcgatgtgtaactcag	960
Db	901	ttgaagaatcatgaattttaaccaattttaagataaacaacaatacgcgatgtgtaactcag	960

Oy	961	tttagagatgggtccccaattctataaagtcaaggcataagagataacgltgccagctcc	1020
Db	961	tttagagatgggtccccaattctataaagtcaaggcataagagataacgltgccagctcc	1020
Oy	1021	ggataggtccagaaatcataatgaatctacgtgtccccaaccatacctttctcaagatgac	1080
Db	1021	ggataggtccagaaatcataatgaatctacgtgtccccaaccatacctttctcaagatgac	1080
Oy	1081	tgtaatagccctcaacacagaagcccgatgtgtctgacctacaacacatacctaaccaa	1140
Db	1081	tgtaatagccctcaacacagaagcccgatgtgtctgacctacaacacatacctaaccaa	1140
Oy	1141	gtgtccctaaacattgtttaaggtgtcatctcagtgatgctcccatcaaatgccaactccc	1200
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Oy	1201	tgtagcaagcccatcccgctcccaacagaagttctcccaactctagacctctgcaatcagatgt	1260
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Oy	1261	tacagccagaagctccgttgagaggtctgtgtcttacaacctacacctgtatgtcttac	1320
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Oy	1381	cgagctaaactctggaaatcaagtcgacgcccgcctaaattcttgatctgtatagatagatggg	1440
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Oy	1441	gtctcacacatactagcccggtgtctcttgaaacctctgaacctgaacctgaacctgaaccttc	1500
Db	1441	gtctcacacatactagcccggtgtctcttgaaacctctgaacctgaacctgaacctgaaccttc	1500
Oy	1501	agacctctaaagtgcttgagatctaaagcaatgagtcacgcgcccgcgcaaaaggtctcagtgct	1560
Db	1501	agacctctaaagtgcttgagatctaaagcaatgagtcacgcgcccgcgcaaaaggtctcagtgct	1560
Oy	1561	ctaaataagaaataaactctgaatctgtctaaacacaaaggaagaaacaaacaaactctgta	1620
Db	1561	ctaaataagaaataaactctgaatctgtctaaacacaaaggaagaaacaaacaaactctgta	1620
Oy	1621	taattctaaaggaatctctgggaatggggaatggctgcacatgagctgtccctctagctccagac	1680
Db	1621	taattctaaaggaatctctgggaatggggaatggctgcacatgagctgtccctctagctccagac	1680
Oy	1681	cactggctccatacactctctccctccatccctctctcaattctcaagctaaagttaacatttaatt	1740
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Db	1861	tgaagcccccagagaggttctcctctccagaagctggggagagccctgcagaacacccggggctc	1920
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Db	2461	ctcagaagggaagggtccctccacgltccagagaaattcccaagggttgaggactctgcagggag	2520
Oy	2521	tgaggagcgtctggggctctgagcgtgtgctgaagaagcagaagaagtgaaaggcgaagctgtaa	2580
Db	2521	tgaggagcgtctggggctctgagcgtgtgctgaagaagcagaagaagtgaaaggcgaagctgtaa	2580
Oy	2581	gctgcccaagatgctcagtgctgtctcaacgggctctggaggttctccgtctgctccctgtgagc	2640
Db	2581	gctgcccaagatgctcagtgctgtctcaacgggctctggaggttctccgtctgctccctgtgagc	2640
Oy	2641	ctttctactcttctctgctctgtagaggaagaagtaataattcaatgaagaaggatcagcttttc	2700
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Oy	2701	ataaagtcagctgttataaattccaggggtgtgcataggggtttctctctacagaaagccttat	2760
Db	2701	ataaagtcagctgttataaattccaggggtgtgcataggggtttctctctacagaaagccttat	2760
Oy	2761	ctaaatgggaataatggaagcagactcatcttcctagccgttaattcaacaggaagaagtgac	2820
Db	2761	ctaaatgggaataatggaagcagactcatcttcctagccgttaattcaacaggaagaagtgac	2820
Oy	2821	tgaagctcttctcttcatgctctctgvgcaactacacagccctgtggtggaactgtgctta	2880
Db	2821	tgaagctcttctcttcatgctctctgvgcaactacacagccctgtggtggaactgtgctta	2880
Oy	2881	tgcaagacggtctcgaanaacctctggaatacagagactcgggtttctctctcgtgttcgcaatt	2940
Db	2881	tgcaagacggtctcgaanaacctctggaatacagagactcgggtttctctctcgtgttcgcaatt	2940
Oy	2941	ggtctgagctgtcgaagcgtgtggcaagtgctctctctccctctgggcaataagctctctgct	3000
Db	2941	ggtctgagctgtcgaagcgtgtggcaagtgctctctctccctctgggcaataagctctctgct	3000
Oy	3001	ataaagacctctgagctctcgtgtctcgttgaaacactccctgtgattctctgtgagggg	3060
Db	3001	ataaagacctctgagctctcgtgtctcgttgaaacactccctgtgattctctgtgagggg	3060
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Db 5280 ccaggcaactctcagcaagc 5300

ID	AAV51363	standard; DNA; 5300 BP.
AC	AAV51363:	
DT	27-OCT-1998	(first entry)
DE	Human TIGR promoter mutant TIGRmt2 DNA.	
KW	TIGR: trabecular meshwork induced glucocorticoid response protein; human;	
XX	diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.	
OS	Homo sapiens.	
XX	Synthetic.	
FT	Key	Location/Qualifiers
FT	mutation	4950
FT	/*tag=	a
FT	/note=	"Wild-type C is replaced with T"
XX	MO9832850-A1.	
PD	30-JUL-1998.	
XX	09-JAN-1998;	98WO-US00468.
XX	26-SEP-1997;	97US-0938669.
PR	28-JAN-1997;	97US-0791154.
XX	(REGC) UNIV CALIFORNIA.	
PA	Chen H, Chen P, Nguyen TD, Polansky JR;	
PI	WPI: 1998-427946/36.	
XX		
DR		
XX		
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing	
PT	products for diagnosis, prognosis and treatment of glaucoma	
XX		
PS	Disclosure: Fig 2; 105pp; English.	
XX		
CC	This sequence is a trabecular meshwork induced glucocorticoid response	
CC	protein (TIGR) promoter mutant, TIGRmt2, which is used in a method for	
CC	diagnosing glaucoma in a patient. The method involves the detection of	
CC	polymorphisms whose presence is predictive of a mutation affecting TIGR	
CC	response in the patient and can be diagnostic of glaucoma or steroid	
CC	sensitivity. Base substitutions and base additions upstream of and within	
CC	TIGR exons can also be used to diagnose glaucoma.	
XX		
XX		
SQ	Sequence 5300 BP; 1482 A; 1151 C; 1235 G; 1432 T; 0 other;	
QY	Query Match	85.5%; Score 5273.8; DB 19; Length 5300;
	Best Local Similarity	99.9%; Pred. No. 0;
	Matches 5297; Conservative	0; Mismatches 2; Indels 2; Gaps 2;
QY	1 atcttgttcagtttaacctcgcgggtattatgaataatgaatgaataaccattgtgaag	60
DB	1 atcttgttcagtttaacctcgcgggtattatgaataatgaatgaataaccattgtgaag	60
QY	61 tccctaacaactgtatagctccatccatcgatgtagtctcttggcagatataagaatca	120
DB	61 tccctaacaactgtatagctccatccatcgatgtagtctcttggcagatataagaatca	120
QY	121 ggaagaagagatatacgaagtttagccaagtgtccaggctgtgtcgtcttatttagtga	180
DB	121 ggaagaagagatatacgaagtttagccaagtgtccaggctgtgtcgtcttatttagtga	180
QY	161 cagatgtgtctcctcctgaagagctatttcttcaggaataaccatccaatatggttaaac	240
DB	161 cagatgtgtctcctcctgaagagctatttcttcaggaataaccatccaatatggttaaac	240

QY	241	catcaaaacagagatcgaataaacaaggaatgaatgagatgagacatctggcccaaggaaaaatctgcag	300
Db	241	catcaaaacagagatcgaataaacaaggaatgaatgagatgagacatctggcccaaggaaaaatctgcag	300
QY	301	gagaaacaataatgatctgaaaaataaactcttcaccttcttcttaattctcaagaaaaatg	360
Db	301	gagaaacaataatgatctgaaaaataaactcttcaccttcttcttaattctcaagaaaaatg	360
QY	361	atygagaccaaaatcaatlgaaatgaagaaaaacagctcagaaaaaagatgcttccaaattbg	420
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QY	421	taattaagtatttgttctcttgaggaaagaaactccaatgagatcttgatgaggaaattgggaa	480
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Db	541	ggcactactcttgaggaggaagttccaagaaagtgcatgcttaagcaaaagacataaacaataac	600
QY	601	agcaaaatccaataatctccgcgaatctgcagaggaagaaatggggactgggaaagcttccataac	660
Db	601	agcaaaatccaataatctccgcgaatctgcagaggaagaaatggggactgggaaagcttccataac	660
QY	661	agtgatttgagcagctgtgacatatgttcgcacaacgtccctccattataccagggaacaacaaa	720
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QY	841	ggagaccctgaagcatttgcctcttagaaggagcagcttctcttaagaaactcttaagaaatc	900
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QY	901	ctgaaagaatcatgaaattcttaaacattcttaagtataaaacaatactgcgtatcatatcag	960
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QY	961	cttagacaatggtgtcccaatttataaagtcagggcacaacaagataaagtggtccagctcc	1020
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Db	1021	ggaatggtcagaataatcatatagaatacactgtgttcccaatctctaacttttcaagaatgctc	1080
QY	1081	tgctatagccctccacaacaagggccgagtggtgctgacatacaacaacatactcaaacccaa	1140
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 DT 27-Oct-1998 (first entry)
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 DE Human TIGR promoter mutant TIGRmt4 DNA.
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 KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
 diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
 OS Homo sapiens.
 OS Synthetic.
 OS
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 FH Key Location/Qualifiers
 FT 4256
 FT mutation
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 PN WO9832850-A1.
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 PD 30-JUL-1998.

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XX 09-JAN-1998: 98MO-US00468.
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XX 26-SEP-1997: 97US-0938669.
XX 28-JAN-1997: 97US-0791154.
XX
XX (RECC ) UNIV CALIFORNIA.
XX
XX Chen H, Chen P, Nguyen TD, Polansky JR:
XX
XX WPI: 1998-427946/36.
XX
XX Use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX
XX Disclosure: Fig 2: 105pp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRMt4, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX
XX Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other:

Query Match      85.5%; Score 5273.8; DB 19; Length 5300;
Best local Similarity 99.9%; Pred. No. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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XX RESULT      8
XX AAVS1366
XX ID          AAVS1366 standard; DNA; 5300 BP.
XX AC
XX AAVS1366;
XX
XX 27-OCT-1998 (first entry)
XX
XX Human TIGR promoter mutant TIGRmt5 DNA.
XX DE
XX KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;.
XX diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX OS
XX Homo sapiens.
XX Synthetic.
XX FH
XX Key Location/Qualifiers
FT mutation 4262
FT FT /*tag= a
FT FT /note= "Wld-type G is replaced with A"
XX PN MO9832850-A1.
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XX 30-JUL-1998.
XX PD
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XX 09-JAN-1998; 98MO-US00468.
XX PE
XX PR 26-SEP-1997; 97US-0938659.
XX PR 28-JAN-1997; 97US-0791154.
XX PA
XX (REGC ) UNIV CALIFORNIA.
XX PI
XX Chen H, Chen P, Nguyen TD, Polansky JR;
XX WP1: 1998-427946/36.
XX DR
XX
XX use of TIGR nucleic acid sequences - used for, e.g. developing
XX products for diagnosis, prognosis and treatment of glaucoma
XX PS
XX Disclosure; Fig 2; 105bp; English.
XX
XX This sequence is a trabecular meshwork induced glucocorticoid response
XX protein (TIGR) promoter mutant, TIGRmt5, which is used in a method for
XX diagnosing glaucoma in a patient. The method involves the detection of
XX polymorphisms whose presence is predictive of a mutation affecting TIGR
XX response in the patient and can be diagnostic of glaucoma or steroid
XX sensitivity. Base substitutions and base additions upstream of and within
XX TIGR exons can also be used to diagnose glaucoma.
XX

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RESULT 9

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AAV51367
ID AAV51367 standard; DNA; 5300 BP.
XX AC AAV51367;
XX DT 27-OCT-1998 (first entry)
XX DE Human TIGR promoter variant TIGRsv1 DNA.
XX KW TIGR: trabecular meshwork induced glucocorticoid response protein; human;
XX KW diagnosis: glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX OS Homo sapiens.
XX OS Synthetic.
XX FH Key
XX FT mutation
XX FT 4406
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XX PN M09832850-A1.
XX PD 30-JUL-1998.
XX PF 09-JAN-1998; 98MO-US00468.
XX PR 26-SEP-1997; 97US-0938669.
XX PR 28-JAN-1997; 97US-0791154.
XX PA (REGC ) UNIV CALIFORNIA.
XX PI Chen H, Chen P, Nguyen TD, Polansky JR;
XX DR WPI; 1998-427946/36.
XX PT Use of TIGR nucleic acid sequences - used for, e.g. developing
XX XX products for diagnosis, prognosis and treatment of glaucoma
XX PS Disclosure; Fig 2; 105pp; English.
XX PS
XX CC This sequence is a trabecular meshwork induced glucocorticoid response
XX CC protein (TIGR) promoter variant, TIGRsv1, which is used in a method for
XX CC diagnosing glaucoma in a patient. The method involves the detection of
XX CC polymorphisms whose presence is predictive of a mutation affecting TIGR
XX CC response in the patient and can be diagnostic of glaucoma or steroid
XX CC sensitivity. Base substitutions and base additions upstream of and within
XX CC TIGR exons can also be used to diagnose glaucoma.
XX S0 Sequence 5300 BP; 1481 A; 1152 C; 1236 G; 1431 T; 0 other;

Query Match 85.5%; Score 5273.8; DB 19; Length 5300;
Best Local Similarity 99.9%; Pred. NO. 0;
Matches 5297; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

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Dh	3601	ccgatcttcaatacctcatcttctcccttacaagccgagtaactctggagatccaaag	3660
Oy	3661	gtagtaacctgagagctgttaagatacttagttctccctatagaactctcttctctgc	3720
Dh	3661	gtagtaacctgagagctgttaagatacttagttctccctatagaactctcttctctgc	3720
Oy	3721	ggagttgacgacaaagggcaatcccggttctctttaaaggagaaacattcccaagag	3780
Dh	3721	ggagttgacgacaaagggcaatcccggttctctttaaaggagaaacattcccaagag	3780
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Dh	3781	taaaagccaaacagatctcaagccctaggtctctgcgactaatagatgtgttttttgaanaat	3840
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Oy	3901	taaacaaacaccacagctgtgtaaatgctcgaagttcaggcttaacctgcagaaaccaataaa-	3959
Dh	3901	taaacaaacaccacagctgtgtaaatgctcgaagttcaggcttaacctgcagaaaccaataaa-	3960
Oy	3960	aagatagaatccttttagagaaaacgtgtttcccaacatctggaggtgagttctgcaggg	4019
Dh	3961	aagatagaatccttttagagaaaacgtgtttcccaacatctggaggtgagttctgcaggg	4019
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Qy	4740	gagaggggagaaatctgcgcgtctctataggaatgctctcccttgagagccctggttaaggctgctg	4799
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Qy	4800	cccttggtctctgagcctgcgtgagctgtattttctctgtccctgctacagctctaaagagactgtct	4859
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Qy	5280	ccagagcacctctccagcacagc	5300
Db	5280	ccagagcacctctccagcacagc	5300
RESULT 10			
AAAS7511			
ID	AAAS7511 standard; DNA; 5271 BP.		
XX			
AC	AAAS7511:		
XX			
DT	20-OCT-2000 (first entry)		
XX			
DE	A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter		
XX			
KW	TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;		
KW	glaucoma; steroid sensitivity; progressive ocular hypertension;		
XX	vision loss; ss.		
OS	Homo sapiens.		
XX			
FH	Key		
FT	mutation		
FT	location/Qualifiers		
FT	replace (4337, G)		
FT	/*tag- a		
FT	/note- "TIGRmt1 mutant"		
FT	mutation		
FT	replace (4950, T)		
FT	/*tag- b		
FT	/note- "TIGRmt2 mutant"		
FT	mutation		
FT	4998		
FT	/*tag- c		
FT	/note- "GTGT added to produce TIGRmt3 mutant"		

FT	mutation	replace (4256, G)
FT		/+tag- d
FT		/note= "TIGRnt4 mutant"
FT	mutation	replace (5113, C)
FT		/+tag- e
FT		/note= "TIGRnt11 mutant"
PX	MO200042220-A1.	
XX		
PD	20-JUL-2000.	
XX		
PF	11-JAN-2000; 2000MO-USO0559.	
XX		
PR	11-JAN-1999; 99US-0227881.	
XX		
PA	07-MAY-1999; 99OS-0306828.	
XX		
PI	(REGC) UNIV CALIFORNIA.	
XX		
DR	Nguyen TD, Polansky JR, Chen P, Chen H;	
XX		
XX	WPI; 2000-491060/43.	
PT	Diagnosis, prognosis and treatment of glaucoma, based on detecting	
PT	p-specific polymorphisms in the promoter of the trabecular meshwork	
PT	inducible glucocorticoid receptor gene -	
PS	Claim 79; Page 117-119; 122pp; English.	
XX		
CC	The present sequence represents a TIGR (trabecular meshwork inducible	
CC	glucocorticoid receptor) promoter, isolated from an individual	
CC	without glaucoma. The specification describes a method for the diagnosis,	
CC	prognosis and treatment of glaucoma, based on detecting specific	
CC	polymorphisms in the promoter of the TIGR gene. The method is used for	
CC	diagnosis and prognosis of glaucoma (of all types), steroid sensitivity	
CC	and progressive ocular hypertension that leads to loss of vision.	
CC	Glaucoma can be treated by administering an agent that binds to	
CC	cis-acting elements within the TIGR promoter. The TIGR promoter (or	
CC	other regulatory regions) can be used to express homologous or	
CC	heterologous genes, particularly for tissue-specific expression of	
CC	therapeutic transgenes for treating glaucoma, also to generate	
CC	transgenic animals and in screening for compounds (specific modulators)	
CC	with diagnostic or therapeutic potential. Fragments of the TIGR	
CC	sequence can be used as amplification primers or probes, e.g. for	
CC	isolating related sequences in non-human animals.	
XX		
SQ	Sequence 5271 BP: 1476 A; 1138 C; 1231 G; 1426 T; 0 other:	
Query Match	85.4%; Score 5269.4; DB 21; Length 5271;	
Best Local Similarity	100.0%; Pred. No. 0;	
Matches 5270; Conservative	0; Mismatches 1; Indels 0; Gaps 0	
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DBB		
	1 acccttgatcaatttaccctcaggcgcttatataaaagaaatgatatgaaccaaagtgaag	60
OY	61 tccctaactatagaccttcacatcgatgatgtatgtcctttgcagatgatataagaatta	120
DB	61 tccctaactatagaccttcacatcgatgatgtatgtcctttgcagatgatataagaatta	120
OY	121 ggaagaagaagatcatccaagttagccaagtgctcaggctgtgtctgcctctatttagtga	180
DB	121 ggaagaagaagatcatccaagttagccaagtgctcaggctgtgtctgcctctatttagtga	180
OY	181 cagatgtgtcttcctgaacgaagctatttcttcgggaaaatcacatccaataatgtgtaaac	240
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Db	3661	gtagtaactgagagctgttaagaattcaattcagttcccttatttaagaaatccctttctgt	3720
QY	3721	ggagttagcgccaggaaggccaatcccgttcttcttaacaggaagaaacatccctaagag	3780
Db	3721	ggagttagcgccaggaaggccaatcccgttcttcttcaacaggaagaaacatccctaagag	3780
QY	3781	taaaagccaaacagattcaaacgcccagagctctgcgcgactatctgattgtttctgaaaat	3840
Db	3781	taaaagccaaacagattcaaacgcccagagctctgcgcgactatctgattgtttctgaaaat	3840
QY	3841	catttcagcgatgtttactactcttgatcagaanaatgagactagttacoccttggtcagctg	3900
Db	3841	catttcagcgatgtttactactcttgatcagaanaatgagactagttacoccttggtcagctg	3900
QY	3901	taaacaaaccccagttgttaaatgcttcacaagttccaggttaactctgaagaaacataaaa	3960
Db	3901	taaacaaaccccagttgttaaatgcttcacaagttccaggttaactctgaagaaacataaaa	3960
QY	3961	agaatagaatcctttaaagcaaacatgtgtttcttcacaatccgtagggctgactccagggc	4020
Db	3961	agaatagaatcctttaaagcaaacatgtgtttcttcacaatccgtaggggtaggtctgcagggc	4020
QY	4021	agtttggaaatatattactcttcaacaagtaattgacacgtgtgttgatttaacaacataagt	4080
Db	4021	agtttggaaatatattactcttcaacaagtaattgacacgtgtgttgatttaacaacataagt	4080
QY	4081	tgtccaaaggaatccaatcttcaaatggccttaagaattcaactcttgacagttttggatct	4140
Db	4081	tgtccaaaggaatccaatcttcaaatggccttaagaattcaactcttgacagttttggatct	4140
QY	4141	ttaattggctatttgccaatttgccttttgccttttctctcttgggtttataatgltaaagcag	4200
Db	4141	ttaattggctatttgccaatttgccttttgccttttctctcttgggtttataatgltaaagcag	4200
QY	4201	ggattttiaacccaaagctccagaagaacccgtgaaatttgaatgaaagaaataatcaattt	4260
Db	4201	ggattttiaacccaaagctccagaagaacccgtgaaatttgaatgaaagaaataatcaattt	4260
QY	4261	tgattttacacaccttctaaactaaattttaaactttatcttcattggaatagccaataa	4320
Db	4261	tgattttacacaccttctaaactaaattttaaactttatcttcattggaatagccaataa	4320
QY	4321	cttcaaaagtgttaataacagttacctgtgatttggltcaattacaaatgaataatcagaacatt	4380
Db	4321	cttcaaaagtgttaataacagttacctgtgatttggltcaattacaaatgaataatcagaacatt	4380
QY	4381	ttataactaatatcaagtctgttcagaataagctgtgaatgaaatattttataacccaacta	4440
Db	4381	ttataactaatatcaagtctgttcagaataagctgtgaatgaaatattttataacccaacta	4440
QY	4441	ctttggaacttagacctcctgcgtggaactgtgtttttaacataataaaatggtttaaa	4500
Db	4441	ctttggaacttagacctcctgcgtggaactgtgtgtttttaacataataaaatggtttaaa	4500
QY	4501	atttttgataatttttgaatacatattcaattcaatttggtttcccttggtaactatattt	4560
Db	4501	atttttgataatttttgaatacatattcaattcaatttggtttcccttggtaactatattt	4560
QY	4561	ataataattgaaacatcttctcgtagaagaagttccccaagattccacaataatgagttctcg	4620
Db	4561	ataataattgaaacatcttctcgtagaagaagttccccaagattccacaataatgagttctcg	4620
QY	4621	catgcaacacacacagaatgaagaactgattttagaggctcaacatgtgactgtgtgcctgaga	4680
Db	4621	catgcaacacacacagaatgaagaactgattttagaggctcaacatgtgactgtgtgcctgaga	4680
QY	4681	tgcagaactgaaatttaggaatgtctccccaagaatcacaaatgtatttttaagaactaaqgtg	4740

```
|||||
Db 4681 tgcagagcctgaattgaaaggtctccccaagataccagctgttctaaagctagggctg 4740
Oy 4741 aggggggaaatctgcgcgtctctabagaatgctctccctggagcctgtagggctgctc 4800
Db 4741 aggggggaaatctgcgcgtctctabagaatgctctccctggagcctgtagggctgctc 4800
Oy 4801 ctgtgtctgcgcgtctgtattttctctctgtccctcaagctcttaaggactgttct 4860
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Oy 4861 ggaatcccaagctcccaagctgagcctgcgcagctgagcttcccaatgagctgcagag 4920
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Oy 4921 tgaatggaatataaataaataataatccttctgtgaatacagacacagtagtctctg 4980
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Oy 4981 tgttaagctgtgtacgctgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 5040
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Oy 5101 caaagaaatctctgaaagtatttcttaagaatctctgtgagcagctgaaagcaacccc 5160
Db 5101 caaagaaatctctgaaagtatttcttaagaatctctgtgagcagctgaaagcaacccc 5160
Oy 5161 cctgtgacagagcccccagccctcaagctgagccctctgtccctcccaagaaaggctg 5220
Db 5161 cctgtgacagagcccccagccctcaagctgagccctctgtccctcccaagaaaggctg 5220
Oy 5221 gctcccaagatataataaactctctgagagctgcgagcatgagcagcaag 5271
Db 5221 gctcccaagatataataaactctctgagagctgcgagcatgagcagcaag 5271

RESULT 11
AAV51364
ID AAV51364 standard; DNA: 5304 BP.
XX
AC AAV51364:
XX
DT 27-OCT-1998 (first entry)
XX
DE Human TIGR promoter mutant TIGRmt3 DNA.
XX
KM TIGR: trabecular meshwork induced glucocorticoid response protein; human;
KW diagnosis; glaucoma; polymorphism; steroid sensitivity; mutant; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT mutation /tag= a
FT 4997..5002
FT /note= "Wild-type TG is replaced with TGTGTC"
XX
PN WO9832850-A1.
XX
PD 30-JUL-1998.
XX
PF 09-JAN-1998: 98MO-US000468.
XX
PR 26-SEP-1997: 97US-0938669.
PR 28-JAN-1997: 97US-0791154.
XX
PA (REGC ) UNIV CALIFORNIA.
PI Chen H, Chen P, Nguyen TD, Polansky JR;
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XX
DR WPI: 1998-427946/36.
XX
PT Use of TIGR nucleic acid sequences - used for, e.g. developing
PT products for diagnosis, prognosis and treatment of glaucoma
XX
PS Disclosure; Fig 2; 105pp; English.
XX
CC This sequence is a trabecular meshwork induced glucocorticoid response
CC protein (TIGR) promoter mutant, TIGRmt3, which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX
SQ Sequence 5304 BP: 1482 A; 1152 C; 1237 G; 1433 T; 0 other:

Query Match 85.3%; Score 5261.4; DB 19; Length 5304;
Best Local Similarity 99.98; Pred. No. 0;
Matches 5298; Conservative 0; Mismatches 1; Indels 6; Gaps 3;

Oy 1 atcttctcagttacacctcagggctattatgaatgaaatgagataccaatgtgaaag 60
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Oy 61 tctataaactgtatagcctccatctcgatgtatgtcttggcagagatgataaagaatca 120
Db 61 tctataaactgtatagcctccatctcgatgtatgtcttggcagagatgataaagaatca 120
Oy 121 ggaagaaaggagatcacagcttagccaagtgtccagggctgtctgcgtcttatttagga 180
Db 121 ggaagaaaggagatcacagcttagccaagtgtccagggctgtctgcgtcttatttagga 180
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Db 181 cagaatgtgtccctcgacagaaagctattctcaggaanaacatcacatctcatalgtg 240
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Db 241 catcaaacagagagctaaagaaacaggaatgagatggagcctgtcccaaggaaaaatgcccag 300
Oy 301 gaggacaaatataatgataaataaacttcccttgttttaatttcagaaanaatg 360
Db 301 gaggacaaatataatgataaataaacttcccttgttttaatttcagaaanaatg 360
Oy 361 atgaggaaccaaaatcaatgaataagaaacagctcagaaanaagatgttcccaatg 420
Db 361 atgaggaaccaaaatcaatgaataagaaacagctcagaaanaagatgttcccaatg 420
Oy 421 taatgaattgtctcctgtggaagagacctcaatgtgagctgtatggtggaanaatg 480
Db 421 taatgaattgtctcctgtggaagagacctcaatgtgagctgtatggtggaanaatg 480
Oy 481 aaagctcaaaagcgtatctgatcagatcccaagtgagatattatatttaaaaccagat 540
Db 481 aaagctcaaaagcgtatctgatcagatcccaagtgagatattatatttaaaaccagat 540
Oy 541 ggcatactctggaggagcaggttcaaggaagtcatgttagcaagaagacatacaataac 600
Db 541 ggcatactctggaggagcaggttcaaggaagtcatgttagcaagaagacatacaataac 600
Oy 601 agcaaaaatcaaatccgcaaatgcaggaagaaatgggagctgggaaagcttcaaac 660
Db 601 agcaaaaatcaaatccgcaaatgcaggaagaaatgggagctgggaaagcttcaaac 660
Oy 661 agtgattagcagttgacacatgtctgcacacccctcccgctctataccgggaaacaacaa 720
Db 661 agtgattagcagttgacacatgtctgcacacccctcccgctctataccgggaaacaacaa 720
Oy 721 attgactggcctgaagcctgtgacttcaagggaatatgaaanaactgaaagcaaaacaaa 780
Db 721 attgactggcctgaagcctgtgacttcaagggaatatgaaanaactgaaagcaaaacaaa 780
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[illegible]

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Qy	1921	tggggtccctgcagaaacccctgcagcccgctgcacctgctgtttgtgttaccatctctcag	19800
Db	1921	tggggtccctgcagaaacccctgcagcccgctgcacctgctgtttgtgttaccatctctcag	19800
Qy	1981	gaacgtgtgtcttcbaattctctgtgtgaactcgttcattcatccagagatcatgtgaacat	20400
Db	1981	gaacgtgtgtcttcbaattctctgtgtgaactcgttcattcatccagagatcatgtgaacat	20400
Qy	2041	tattgtgacttatatctgcagagaccagagaaagaaatggtgtgagaaagaggtcaagc	21000
Db	2041	tattgtgacttatatctgcagagaccagagaaagaaatggtgtgagaaagaggtcaagc	21000
Qy	2101	ccctaaccttcgtgagagctgtgacagttctctcacaagagagacgtgtgcagaaagaaatcaagca	21600
Db	2101	ccctaaccttcgtgagagctgtgacagttctctcacaagagagacgtgtgcagaaagaaatcaagca	21600
Qy	2161	gccaacttaaaacccagctgtgcagaaagaaagaaataaacaacactctgtgaaagattgtgcgc	22200
Db	2161	gccaacttaaaacccagctgtgcagaaagaaagaaataaacaacactctgtgaaagattgtgcgc	22200
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Qy	2281	cccccaagcccgagctctctcaagccctctctctcatcaagtcacagcgtgcagctgtgcct	23400
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Qy	2401	ccagaaagagaaatgagagagagaaactaagtcctaaacgagagaaactctgagagagagctgtcttc	24600
Db	2401	ccagaaagagaaatgagagagagaaactaagtcctaaacgagagaaactctgagagagagctgtcttc	24600
Qy	2461	ctcagagagagaaaggggctctcaagctccagagagaaattcccaagagagctgtgagagactgcagagag	25200
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Qy	2521	tgggagagagctgcagagctgcagagctgtctgcagaaagagagagagagctgcagagagctgcag	25800
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Qy	2581	gctgcagagatgtctcagtgctgtctcaaggggctgcagaggtttctcgtctgcctccctgcagc	26400
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Qy	2641	ctcttctatctctctcgtctgcagagagagagagagcttatcttaagaaagagatgcagtttc	27000
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Qy	2701	ataaagctcagcgtctaaaatctccagagctgtgtcagtgagttctccttcagagaaagccttat	27600
Db	2701	ataaagctcagcgtctaaaatctccagagctgtgtcagtgagttctccttcagagaaagccttat	27600
Qy	2761	ttaaagagaaataagagagagagcttatcttccctaaagccgttaattccagagaaagagagac	28200
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Qy	2821	tggagctcttctctcatgctctcctgcagagaaactatactcaagccctgtgtgtgagctgtgctta	28800
Db	2821	tggagctcttctctcatgctctcctgcagagaaactatactcaagccctgtgtgtgagctgtgctta	28800
Qy	2881	tgcagagagctgcagaaacctgtgaatcagagagagctgttctctctctgtctgtccat	29400
Db	2881	tgcagagagctgcagaaacctgtgaatcagagagagctgttctctctctgtctgtccat	29400

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Db	accgccctgtgcacagcccccaccagctccagctgcgcacactctgctcttccccaatgaag	5219
Oy	ggctgcgtcccccagatataataaacctctctctggaagctcgggcattgagccagcaagccac	5275
Db	ggctgcgtcccccagatataataaacctctctctggaagctcgggcattgagccagcaagccac	5279
Oy	ccattccagcagcactctcagcagcaac	5300
Db	ccattccagcagcactctcagcagcaac	5304

RESULT	12
AAA57485	
ID	AAA57485 standard; DNA; 5304 BP.
XX	
AC	AAA57485;
XX	
DT	20-OCT-2000 (first entry)

AA	A TIGR (trabecular meshwork inducible glucocorticoid receptor) promoter
DE	
XX	
KW	TIGR: trabecular meshwork inducible glucocorticoid receptor; promoter;
KW	glaucoma; steroid sensitivity; progressive ocular hypertension.
KW	vision loss; ss.
XX	
OS	Homo sapiens.

AA	Key	Location/Qualifiers
FH		replace (4337, G)
FT	mutation	/*tag= a
FT		/note= "TIGRmt1 mutant"
FT		replace (4950, T)
FT	mutation	/*tag= b
FT		/note= "TIGRmt2 mutant"
FT	mutation	4998
FT		/*tag= c
FT		/note= "GTGT added to produce TIGRmt3 mutant"
FT	mutation	replace (4236, G)
FT		/*tag= d
FT		/note= "TIGRmt4 mutant"
FT	mutation	replace (5117, C)
FT		/*tag= e
FT		/note= "TIGRmt11 mutant"

PN MO2000042220-A1.
XX
PD 20-JUL-2000.
XX
PF 11-JAN-2000; 2000MO-US000559.
XX
PR 11-JAN-1999; 99US-0227881.
PR 07-MAY-1999; 99US-0306828.
XX
PA (REGC) UNIV CALIFORNIA.
XX
PI Nguyen TD, Polansky JR, Chen P, Chen H;
DR WPI; 2000-491060/43.
XX
XX
PT Diagnosis, prognosis and treatment of glaucoma, based on detecting
PT specific polymorphisms In the Promoter of the trabecular meshwork
PT inducible glucocorticoid receptor gene -
XX

Fig. 2A-E: 12np: English.

gent sequence represents a sequence variant of the TIGR human glucocorticoid receptor promoter. This work describes a method for the diagnosis, prognosis and treatment of glaucoma, based on detecting specific polymorphisms in the glucocorticoid receptor gene.

CC In the promoter of the TIGR gene. The method is used for diagnosis
CC and prognosis of glaucoma (of all types), steroid sensitivity
CC and progressive ocular hypertension that leads to loss of vision.
CC Glaucoma can be treated by administering an agent that binds to
CC cis-acting elements within the TIGR promoter. The TIGR promoter (or
CC other regulatory regions) can be used to express homologous or
CC heterologous genes, particularly for tissue-specific expression of
CC therapeutic transgenes for treating glaucoma, also to generate
CC transgenic animals and in screening for compounds (specific modulators)
CC with diagnostic or therapeutic potential. Fragments of the TIGR
CC sequence can be used as amplification primers or probes, e.g. for
CC isolating related sequences in non-human animals.

Query Match	85.28;	Score 5253.4;	DB 21;	Length 5304;
Best Local Similarity	99.88;	Pred. NO. 0;		
Matches 5299; Conservative	0;	Mismatches	6;	Indels 6; Gaps 3;

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QY	61	tccataaaactgtatagacctccattccggaatgatatgtctcttgccagatgataaagatca	120
Db	61	tccataaaactgtataagctccattccggaatgatatgtctcttgccagatgataaagatca	120
QY	121	ggaagaaggagatgccacgttaagccaagtgcaccaggtgtgtctgcttatttgatga	180
Db	121	ggaagaaggagatgccacgttaagccaagtgcaccaggtgtgtctgcttatttgatga	180
QY	181	cagaatgtctcctctgacagaagctattcttcagaagaaacatcacatcaatatgttaaac	240
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QY	241	caccaacaacagagctlaagaaacaggaatgagatggtgacctgtgcccaaggaaatatgccag	300
Db	241	caccaacaacagagctlaagaaacaggaatgagatggtgacctgtgcccaaggaaatatgccag	300
QY	301	gagagcaaatatgatatgataaataaactttcccttgttttaatttccaggaaataatg	360
Db	301	gagagcaaatatgatatgataaataaactttcccttgttttaatttccaggaaataatg	360
QY	361	atgagggccaaatccaatgaaatgaagaaacacgctccagaaataagaatgtttcccaaatg	420
Db	361	atgagggccaaatccaatgaaatgaagaaacacgctccagaaataagaatgtttcccaaatg	420
QY	421	taattaaagtatttgttccctctggaagagaccctccatgttgagcttgatgggaaaaatggga	480
Db	421	taattaaagtatttgttccctctggaagagaccctccatgttgagcttgatgggaaaaatggga	480
QY	481	aaagctcaaaaagcattgattctgataagttcccaagtgagattatattttaaaaaaccgat	540
Db	481	aaagctcaaaaagcattgattctgataagttcccaagtgagattatattttaaaaaaccgat	540
QY	541	ggctacactctggaagagcagaattccagaagaagtcatgtttagcaaaaggacataacaataac	600
Db	541	ggctacactctctggaagagcagaattccagaagaagtcatgtttagcaaaaggacataacaataac	600
QY	601	agcaaaaatcaaaatctccgcaaatgcaagaggaagaaatggtggacttgggaaaactttcataac	660
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QY	661	agtatattgagagttgacattcgcgaacacccctcccgctctataccaagggaacacaaaa	720
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|||||
Db 781 gacatggtctaaaggcacaaccgaacatctgtgagctctcaaaagcagctgcccctcagca 840
Oy 841 gggagccctggggacatttgccctcttagaaggacatttcttaagaatcttaaaaatc 900
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Db 901 ctgaaagatcatgaattctaaaccacttctaaagtataaaaacaatactgcagtcaatacag 960
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RESULT 13
AA237968
ID AA237968 standard: DNA: 2800 BP.
XX
AC AA237968:
XX
DT 07-FEB-2000 (first entry)
XX
DE Human GLCIA gene exon 1 and flanking sequences.
XX
KW GLAUCOMA: PCR amplification; primary open wide angle glaucoma;
KM GLCIA gene; exon; human; ss.
XX
OS Homo sapiens.
XX
PN WO951779-A2.
XX
PD 14-OCT-1999.
XX
PF 07-APR-1999: 99MO-US07671.
PR 07-APR-1998: 98US-0056285.
XX
PA (IOWA ) UNIV IOWA RES FOUND.
XX
PI Stone EM, Sheffield VC, Alward WLM, Fingert J;
XX
WPI: 2000-022956/02.
XX
Determination of a predisposition to glaucoma by analysing mutations in
PT the GLCIA gene.
XX
PS Disclosure: Fig 1A: 137pp: English.
XX
CC The invention relates to a method for the determination of a
CC predisposition to glaucoma. The method comprises amplifying a GLCIA gene
CC with a primer pair selected from the sequences shown in AA237981-238008.
CC The primers are used to determine whether a subject has or has the
CC potential to develop primary open wide angle glaucoma. The present
CC sequence represents the human GLCIA gene exon 1 and flanking sequences.
XX
Sequence 2800 BP: 781 A: 588 C: 673 G: 758 T: 0 other:

Query Match 43.4% Score 2677.4: DB 21: Length 2800:
Best Local Similarity 99.7%: Pred. No. 0:
Matches 2736: Conservative 0: Mismatches 1: Indels 8: Gaps 5:

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 QY 5350 gtgcacgctgtgcagacgtctggtgacgtgtagatgtagcagctgtctccagctgtgcgtctgtgcct 5409
 Db 1919 gtgcacgctgtgcagacgtctggtgacgtgtagatgtagcagctgtctccagctgtgcgtctgtgcct 1978
 QY 5410 gccctggtgtgtggaatctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 5469
 Db 1979 gccctggtgtgtggaatctgtggtggtggtggtggtggtggtggtggtggtggtggtggtggt 2038
 QY 5470 gccgaatgcagatatacctctcagctgtgtggtggtggtggtggtggtggtggtggtggtggtggt 5529
 Db 2039 gccgaatgcagatatacctctcagctgtgtggtggtggtggtggtggtggtggtggtggtggtggt 2098
 QY 5530 gccgaatgcagatatacctctcagctgtgtggtggtggtggtggtggtggtggtggtggtggtggt 5589
 Db 2099 gccgaatgcagatatacctctcagctgtgtggtggtggtggtggtggtggtggtggtggtggtggt 2158
 QY 5590 tggagagccacaaagctcagctcagctcagctcagctcagctcagctcagctcagctcagctcagctcag 5649
 Db 2159 tggagagccacaaagctcagctcagctcagctcagctcagctcagctcagctcagctcagctcag 2218
 QY 5650 accaagctgtgcaggtgcacag 5709
 Db 2219 accaagctgtgcaggtgcacag 2278
 QY 5710 ggcggagagcggagacagagctgtgaaacccaaacagagagagctgtgagagagctgtctatcagaacac 5769
 Db 2279 ggcggagagcggagacagagctgtgaaacccaaacagagagagctgtgagagagctgtctatcagaacac 2338
 QY 5770 tccctcagagacagatcagctctctgag 5829
 Db 2339 tccctcagagacagatcagctctctgag 2398

QY 5830 atctgcccagagagctgtgaaagcagcagccagaggtatgacaaggtctgaaagggccagt 5889
 Db 2399 atctgcccagagagctgtgaaagcagcagccagaggtatgacaaggtctgaaagggccagt 2458
 QY 5890 gtcccaagaccagagacagctgtggtgctgtgtcccaagagctccagagaaagttaagaatg 5949
 Db 2459 gtcccaagaccagagacagctgtggtgctgtgtcccaagagctccagagaaagttaagaatg 2518
 QY 5950 cagagctggggagactctcagatctcagcaggtgatatgtgctcgtatgtgacccgtcacaagcg 6009
 Db 2519 cagagctggggagactctcagatctcagcaggtgatatgtgctcgtatgtgacccgtcacaagcg 2578
 QY 6010 ctccagagctc---cctgccttctccttagagactgtcacagcttaagcacaaagacagatg 6065
 Db 2579 ctccagagctcctcctgcctgccttctccttagagactgtcacagcttaagcacaaagacagatg 2638
 QY 6066 aattaaagaaagacacacgttcaactcacaagatattacttaattttagctccctgagagct 6124
 Db 2639 aattaaagaaagacacacgttcaactcacaagatattacttaattttagctccctgagagct 2698
 QY 6125 tcaattagatagtggtctcagagcttctgtgcccctccatgtcacg 6169
 Db 2699 tcaattagatagtggtctcagagcttctgtgcccctccatgtcacg 2743

RESULT 14
 AAV37618
 ID AAV37618 standard: DNA, 3493 BP.
 XX
 AC AAV37618:
 XX
 DT 14-SEP-1998 (first entry)
 XX
 DE Human gliucoma associated GLCIA genomic sequence.
 XX
 KW Gliucoma; GLCIA; treatment; mutant; juvenile open angle gliucoma;
 KW JOAG; ss.
 OS
 XX Homo sapiens.
 XX
 FH Key
 FT 5'UTR
 FT 1..180
 FT /tag= a
 FT 181..3022
 FT /tag= b
 FT /product= "GLCIA protein"
 FT /note= "contains introns"
 FT 181..784
 FT
 FT /tag= c
 FT /number= 1
 FT 785..1426
 FT /tag= d
 FT
 FT /tag= e
 FT /number= 2
 FT 1553..2237
 FT /tag= f
 FT /number= 2
 FT 2238..3019
 FT /tag= g
 FT /number= 3
 FT 3020..3493
 FT /tag= h
 FT
 XX
 PN W09820131-A1.
 XX
 XX 14-MAY-1998.
 PD
 XX 07-NOV-1997; 97WO-US20702.
 PF
 XX 21-MAR-1997; 97US-0822999.
 PR

PR	08-NOV-1996;	96US-0748479.
PR	30-JAN-1997;	97US-0791347.
PA	(IOWA) UNIV IOWA RES FOUND.	
XX		
PI	Alward WLM, Sheffield V, Stone EM;	
XX		
DR	WPI: 1998-286947/25.	
DR	P-PSDB: AAM60670.	
XX		
PT	New Isolated gene associated with glaucoma - used to develop	
PT	products to determine whether a subject has, or is at risk of,	
PT	developing glaucoma, and for treating or preventing glaucoma	
XX		
PS	Claim 1; Fig 1A-B; 116pp: English.	
XX		
CC	This represents the genomic sequence of the human GLCIA gene which is	
CC	associated with juvenile open angle glaucoma (JOAG). The gene can be used	
CC	for the development of assays for identifying molecules that modulate	
CC	(agonists or antagonists) the bioactivity of a functional or mutant gene	
CC	or protein. Modulators may be an antibody, protein, peptide or	
CC	peptidomimetic or a nucleic acid, e.g. antisense sequence, ribozyme or	
CC	triple helix forming nucleic acid. These molecules can be administered to	
CC	a subject with glaucoma or at risk for developing glaucoma to prevent or	
CC	reduce the severity of the condition. Derivatives of GLCIA gene can be	
CC	used to detect lesions of the GLCIA gene which are indicative of glaucoma	
CC	or predisposition to glaucoma.	
XX		
XX	Sequence 3493 BP; 929 A; 840 C; 840 G; 871 T; 13 other;	

Query Match	15.88;	Score 975.2;	DB 19;	Length 3493;
Best Local Similarity	98.48;	Pred. No. 2.9e-216;		
Matches 1002;	Conservative 0;	Mismatches 11;	Indels 5;	Gaps 2;

Db	541	ctgvgcaaccctcgagtcggtgagtcggtgacacgctcgtgaaaccacaaccagagagctctggaact	600
QY	5757	gctctacagcaaacctccctccacagacaagctcagttctctctgagaaagagagagacgcataaag	5816
Db	601	gctctacagcaaacctccctccacagacaagctcagttctctctgagaaagagagagagagactaaag	660
QY	5817	caagaaaaatgagaaatcctctgcacagagagctctgaaagacagacagccagagagctgaaagcctg	5876
Db	661	caagaaaaatgagaaatcctctgcacagagagctctgaaagacagacagccagagagctgaaagcctg	720
QY	5877	agaaagtggtgcagctctcctccacagaccagagacaactctgcctggtctctgacacacagctccacga	5936
Db	721	agaagtggtgcagctctcctccacagaccagagacaactctgcctggtctctgacacacagctccacga	780
QY	5937	gaaagctaaagaaatgcagagctggtggtgagactctgagcttcaagcagctgtgatactgctcgtctgag	5996
Db	781	gaaagctaaagaaatgcagagctggtggtgagactctgagcttcaagcagctgtgatactgctcgtctgag	840
QY	5997	cctgtctacagcgcctccagagctc-----cctgcaccttctctctagagagctgcacagctag	6052
Db	841	cctgtctacagcgcctccagagctcctcctctgcctctctctctctctctctctctctctctctctctag	900
QY	6053	cacaaagacagctgaaatctaaaggaagacaca-cgatacacttcaagctatctactgttaattta	6111
Db	901	cacaagacagctgaaatctaaaggaagacacagacagatcacacttcaagctatctactgttaattta	960
QY	6112	gctccttgagaaactcatcttatgattagtggtgtctagaaattctctgtgccccctcaattgtcag	6169
Db	961	gctccttgagaaactcatcttatgattagtggtgtctagaaattctctgtgccccctcaattgtcag	1018

RESULT	15
AAV51391	
ID	AAV51391 standard; cDNA; 1548 BP.

OY	5157	ccccccctctgcaagaagccccccacagctctcaagctgagcaacctctgtctctcccccctgaagg	521
Db	1	ccccccctctgcaagaagccccccacagctctcaagctgagcaacctctgtctctcccccctgaagg	60
OY	5217	gctctgctccccaagtataataaaactctctctgtagagctcgagcactgaagcacaagaagccac	5276
Db	61	gctctgctccccaagtataataaaactctctctgtagagctcgagcactgaagcacaagaagccac	120
OY	5277	catctcagagccactctcaagcacaagaaagctcttcacagagaaagcctccacaagcctctgca	5336
Db	121	catctcagagccactctcaagcacaagaaagctcttcacagagaaagcctccacaagcctctgca	180
OY	5337	atcgaggtctctctctgcaacatctgctcgaacctcttgagcccgaaatgccaagctctcagaatg	5396
Db	181	atcgaggtctctctctgcaacatctgctcgaacctcttgagcccgaaatgccaagctctcagaatg	240
OY	5397	ctgctctctgacctgacctgctgctgagatgctgtagggccacagacacagctctcagaagaagcc	5456
Db	241	ctgctctctgacctgacctgctgctgagatgctgtagggccacagacacagctctcagaagaagcc	300
OY	5457	atctgacccaagagctgagcagatagccaaagtataacctctcaagtctgagccagctcccaatgaaatccagc	5516
Db	301	atctgacccaagagctgagcagatagccaaagtataacctctcaagtctgagccagctcccaatgaaatccagc	360
OY	5517	tgcccaagaagacagagccaaagaccatgctcaatccatctaaactcaagaagaagacagacagcc	5576
Db	361	tgcccaagaagacagagccaaagaccatgctcaatccatctaaactcaagaagaagacagacagcc	420
OY	5577	caaacgctctgaagacctgagagccacacaaaagctctgaactcaagctccctcgagagagcctctccac	5636
Db	421	caaacgctctgaagacctgagagccacacaaaagctctgaactcaagctccctcgagagagcctctccac	480
OY	5637	caaatctgacctctgagacccaagagctgccaagcccccaagagacccaagaagaaggctctcagaagagag	5696
Db	481	caaatctgacctctgagacccaagagctgccaagcccccaagagacccaagaagaaggctctcagaagagag	540
OY	5697	ctgagcaccctgagagccgagagccgagacagctggaacccaacccaagagaatctgagaagct	5756

AC	AAV51391;	
XX		
DT	27-OCT-1998	(first entry)
XX		
DE	Human TIGR cDNA.	
XX		
KM	TIGR: trabecular meshwork induced glucocorticoid response protein; human	
KW	diagnosis; glaucoma; polymorphism; steroid sensitivity; ss.	
XX		
OS	Homo sapiens.	
XX		
FH	Key	Location/Qualifiers
FT	CDS	37..1548
FT		/*tag= a
FT		/product= TIGR
XX		
PN	MO9832850-A1.	
XX		
PD	30-JUL-1998.	
XX		
PF	09-JAN-1998;	98MO-US00468.
XX		
PR	26-SEP-1997;	97US-0938669.
PR	28-JAN-1997;	97US-0791154.
XX		
PA	(REGC) UNIV CALIFORNIA.	
XX		
PI	Chen H, Chen P, Nguyen TD, Polansky JR;	
XX		
DR	WPI: 1998-427946/36.	
XX		
DR	P-PSDB; AAW64669.	
XX		
PT	Use of TIGR nucleic acid sequences - used for, e.g. developing	
XX	products for diagnosis, prognosis and treatment of glaucoma	
PS	Claim 48; Fig 7; 105pp; English.	
XX		
CC	This CDNA sequence encodes a novel human trabecular meshwork induced	

CC glucocorticoid response protein (TIGR) which is used in a method for
CC diagnosing glaucoma in a patient. The method involves the detection of
CC polymorphisms whose presence is predictive of a mutation affecting TIGR
CC response in the patient and can be diagnostic of glaucoma or steroid
CC sensitivity. Base substitutions and base additions upstream of and within
CC TIGR exons can also be used to diagnose glaucoma.
XX

SO Sequence 1548 BP; 402 A; 418 C; 431 G; 297 T; 0 other;

Query Match 10.4%; Score 640.4; DB 19; Length 1548;

Best Local Similarity 99.8%; Pred. No. 9, 1e-139;

Matches 641; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 5301 agagcttccagaggaagcctcaccaagcctctgcaatgaggtctctctgtgcaqtlgc 5360
DB 1 agagcttccagaggaagcctcaccaagcctctgcaatgaggtctctctgtgcaqtlgc 60
OY 5361 tgaagcttggggtcctgagatgagcagctgttccactgtctgtctgtgctgtgtgtg 5420
DB 61 tgaagcttggggtcctgagatgagcagctgttccactgtctgtctgtgctgtgtgtg 120
OY 5421 gatgtggggccagagcagctcagctcagaagaagccaatgaccagatgagctgcaag 5480
DB 121 gatgtggggccagagcagctcagctcagaagaagccaatgaccagatgagctgcaag 180
OY 5481 tatacctcaagtgtggtccagctcccaatgaatccagctgtccagagagagccagctatg 5540
DB 181 tatacctcaagtgtggtccagctcccaatgaatccagctgtccagagagagccagctatg 240
OY 5541 tcagatccatcaacttacaagagagacagacacacacagctttagacttgagagccacc 5600
DB 241 tcagatccatcaacttacaagagagacagacacacacagctttagacttgagagccacc 300
OY 5601 aagagctcgaactcagctccctggagagagcctcctccacaaatgaacttgagccagctgcc 5660
DB 301 aagagctcgaactcagctccctggagagagcctcctccacaaatgaacttgagccagctgcc 360
OY 5661 agggcccaagagagccagagaggggtctgcagaagagagctgggcaacctgagcgagagcgg 5720
DB 361 agggcccaagagagccagagaggggtctgcagaagagagctgggcaacctgagcgagagcgg 420
OY 5721 gaccagctggaaacccaacacagaggttgagagctgcttacaagcaactcctccgaagac 5780
DB 421 gaccagctggaaacccaacacagaggttgagagctgcttacaagcaactcctccgaagac 480
OY 5781 aagtcagttctggagaggaagaagaagcgactaagcgcaagaatgaagaatctggtccagg 5840
DB 481 aagtcagttctggagaggaagaagaagcgactaagcgcaagaatgaagaatctggtccagg 540
OY 5841 aggtctggaaagcagcagcagagaggtatgaagaagctgagaaggggccagtgtccccagacc 5900
DB 541 aggtctggaaagcagcagcagagaggtatgaagaagctgagaaggggccagtgtccccagacc 600
OY 5901 cgagacactgctcgaggtctgtccacacaggtctcagagaaggt 5942
DB 601 cgagacactgctcgaggtctgtccacacaggtctcagagaaggt 642

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Job time: 9061 sec